

MSDM50 Series

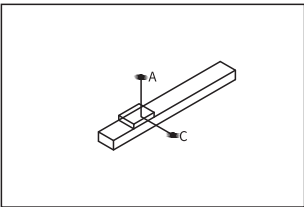
▶ Ball Screw Drive Actuators / Clean Room

Product Catalog

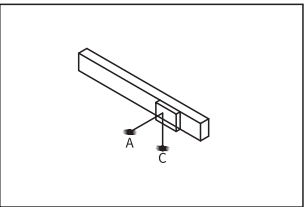
Basic Specifications

Performance	Position Repetition Precision		±0.01/±0.02			
	Ball Screw Lead		2	5	10	20
	Max. Speed		100	250	500	1000
	Max. Handling Weight	Horizontal Use	15	10	8	5
		Vertical Use	10	8	5	5
Components	Standard Stroke		100~800mm / 50mm pitch			
	AC Servo Motor Capacity		200			
	Ball Screw Outer Diameter		C7 Ø12			
	High-rigidity Linear Guide		24×9.5			
	Coupling		LK5-C26-0810WP			
	Home Sensor	External-mounted	FC-SPX303Z(NPN)			
			LU672-5NA(NPN)			

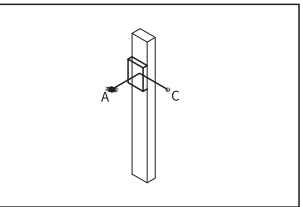
Allowable Load Moment Table



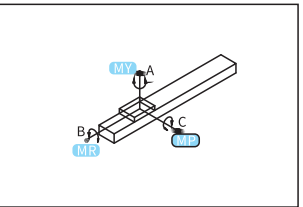
(Unit: mm)



(Unit: mm)



(Unit: mm)



Horizontal Operation (Unit: N.m)

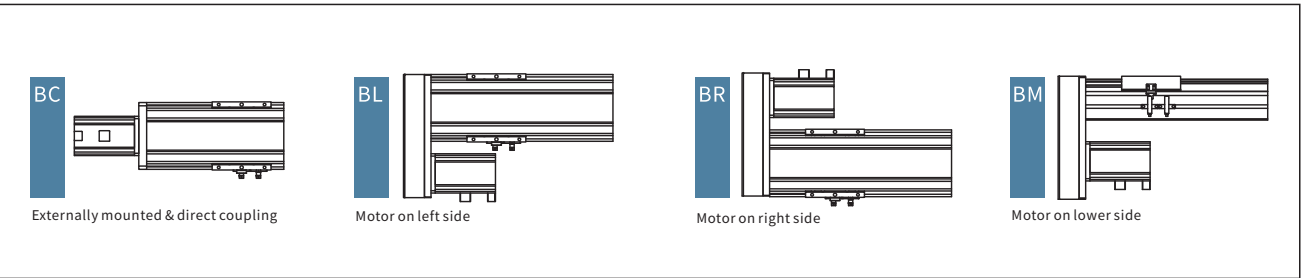
Horizontal Mounting		A	C
Lead 2	10kg	300	150
	15kg	200	100
Lead 5	8kg	300	150
	12kg	200	100
Lead 10	5kg	300	150
	10kg	200	100
Lead 20	5kg	300	150
	8kg	200	100

Side Mounting		A	C
Lead 2	10kg	200	300
	15kg	150	200
Lead 5	10kg	200	300
	15kg	150	200
Lead 10	3kg	200	300
	5kg	150	200
Lead 20	3kg	200	300
	5kg	150	200

Vertical Mounting		A	C
Lead 2	8kg	100	200
	10kg	50	100
Lead 5	8kg	100	200
	10kg	50	100
Lead 10	10kg	50	100
	10kg	50	100

MY	16(N.m)
MP	20(N.m)
MR	19(N.m)

List of Shaft Directions



Max. Stroke	800mm	Max. Speed	500mm/s	Motor Capacity	200W	Ball Screw	φ12MM	LinearGuideRail	24*9.5-1 PC
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Model Number Designation System

MSDM50 - P05 - S500 - M - C7 - 100W - BJ

Model

Stroke

100-800mm

50mm pitch

Lead

Motor Position

Ball Screw Grade

Servo Motor

Slide Block Length

P02	02mm
P05	05mm
P10	10mm
P20	20mm

BC	Motor externally mounted
BM	Motor on lower side
BR	Motor on right side
BL	Motor on left side

C7	C7
C5	C5
C3	C3

1	100W
H	Stepper motor

BJ	Standard slide block
DJ	Customized slide block

Product Catalog

BC Motor Externally Mounted

Download CAD drawings at www.dgshihai.com

Effective Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	267	317	367	417	467	517	567	617	667	717	767	817	867	917	967	1017
C	41	11	21	31	41	11	21	31	41	11	21	31	41	11	21	31
N	5	7	8	9	11	12	13	14	16	17	18	19	21	22	23	24
Weight(KG)	2.1	2.2	2.3	2.4	2.5	2.7	2.8	2.8	3	3.1	3.2	3.3	3.4	3.5	3.6	3.7

Special Note: * Motor not included

BL Motor on left side

Download CAD drawings at www.dgshihai.com

Effective Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	279	329	379	429	479	529	579	629	679	729	779	829	879	929	979	1029
C	9	19	29	39	9	19	29	39	9	19	29	39	9	19	29	39
N	6	7	8	9	11	12	13	14	16	17	18	19	21	22	23	24
Weight(KG)	2.1	2.2	2.3	2.4	2.5	2.7	2.8	2.8	3	3.1	3.2	3.3	3.4	3.5	3.6	3.7

Special Note: * Motor not included

BM Motor on lower side

Download CAD drawings at www.dgshihai.com

Effective Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	279	329	379	429	479	529	579	629	679	729	779	829	879	929	979	1029
C	9	19	29	39	9	19	29	39	9	19	29	39	9	19	29	39
N	6	7	8	9	11	12	13	14	16	17	18	19	21	22	23	24
Weight(KG)	2.1	2.2	2.3	2.4	2.5	2.7	2.8	2.8	3	3.1	3.2	3.3	3.4	3.5	3.6	3.7

Special Note: * Motor not included

BR Motor on left side

Download CAD drawings at www.dgshihai.com

Effective Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	279	329	379	429	479	529	579	629	679	729	779	829	879	929	979	1029
C	9	19	29	39	9	19	29	39	9	19	29	39	9	19	29	39
N	6	7	8	9	11	12	13	14	16	17	18	19	21	22	23	24
Weight(KG)	2.1	2.2	2.3	2.4	2.5	2.7	2.8	2.8	3	3.1	3.2	3.3	3.4	3.5	3.6	3.7

Special Note: * Motor not included